

GCC6000 Series - Fast Provisioning Parameters

Introduction

The Fast provision feature of the GCC6000 series provides a list of configurable parameters that can be used by the network administrator for different purposes. Among the use case scenarios:

- **Avoiding Traffic Congestion:** by assigning network priority to each device separately , depending on its usage.
- **Enhancing Call Security:** by applying more secure protocols on specific devices based on the deployment’s needs.
- **Enhancing Call Quality:** by using some quality of service implementations, the network administrator can favor specific codecs and protocols for a lossless video and audio call experience.

In the following guide, we will present the different values and parameters to be defined and configured, based on the Grandstream device model.

Network Priority

Network Priority				
Supported Endpoints	Endpoint Configuration Items	Value(Low Level)	Value(Medium)	Value(Advanced)
GXP16xx/17xx,GXP213/4/6/7x,GRP26xx,GXV3XXX,WP8XX,GAC,GHP,GSC,GDS,GVC	Network Settings/Advanced Settings/Advanced Settings/Third floor SIP QoS	26	26	46
GXP16xx/17xx,GXP213/4/6/7x,GRP26xx,GXV3XXX,WP8XX,GAC,GHP,GSC,GDS,GVC	Network Settings/Advanced Settings/Advanced Settings/Layer 3 Audio QoS	26	34	46
GXV3XXX,WP8XX,GAC,GHP,GSC,GDS,GVC	Network Settings/Advanced Settings/Advanced Settings/Layer 3 Video QoS	26	34	46

Call Security Level

Call Security Level				
Supported Endpoints	Endpoint Configuration Items	Value(Low Level)	Value(Medium)	Value(Advanced)
GXP16xx/17xx,GXP213/4/6/7x,GRP26xx,GXV3XXX,GAC,GHP,GSC,GDS,GVC	Account/Account/SIP Settings/SIP Transmission Method	0:UDP (Default)	2: TCP/TLS	2: TCP/TLS
GXP16xx/17xx,GXP213/4/6/7x,GRP26xx,GXV3XXX,WP8XX,GAC,GHP,GSC,GDS,GVC	Account/Account/Encoding Setting/SRTP Mode	0:Disabled (Default)	1: Enabled But Not Forced	2: Enabled and Forced

GXP213/4/6/7x,GRP26xx,GXV3XXX,WP8XX,GAC,GHP,GSC,GDS,GVC	Account/Account/Encoding Settings/SRTP Key Length	1:AES 128Bit	0: AES 128 And 256Bit	2:AES256Bit
GXP16xx/17xx,GXP213/4/6/7x,GRP26xx,GXV3XXX,WP8XX,GAC,GHP,GSC,GDS,GVC	account/account/Encoding settings/symmetryRTP	0:NO (Default)	1:Yes	1:Yes
GXP16xx/17xx,GXP213/4/6/7x,GRP26xx,GXV3XXX,WP8XX,GAC,GHP,GSC,GDS,GVC	account/account/Advanced Settings/Verify the certificate chain	0:No(Default)	1:Yes	1:Yes
GXP16xx/17xx,GXP213/4/6/7x,GRP26xx,GXV3XXX,WP8XX,GAC,GHP,GSC,GDS,GVC	account/account/Advanced Settings/Only accept known serversSIPask	0:No(Default)	1:Yes	1:Yes
GXP213/4/6/7x,GRP26xx,GXV3XXX,WP8XX,GAC,GHP,GSC,GDS,GVC	System Settings/Security Settings/Encryption settings/MinimumTLSVersion	11:TLS_1.1(Default)	12:TLS_1.2	12:TLS_1.2
GXP213/4/6/7x,GRP26xx,GXV3XXX,WP8XX,GDS,GVC	System Settings/Security Settings/Client Certificate/Enable/Disable weak cipher suites	0:Enable WeakTLSCipher suites	1:Disable symmetric encryption RC4/DES/3DES	1:Disable symmetric encryption RC4/DES/3DES
GXP16xx/17xx,GXP213/4/6/7x,GRP26xx,GXV3XXX,WP8XX,GAC,GHP,GSC,GDS,GVC (GXP phones, GSC3610 all levels of random port configuration are closed)	Phone Settings/Basic Settings/Use random port	0:No	1:Yes	1:Yes
Extension configuration items	Extension configuration items on PBX	Value(Low Level)	Value(Medium)	Value(Advanced)
	Extension >> Media >> RTP Encryption >> SRTP Encryption Mode	Close (no)	Enabled But Not Forced(support)	Enabled and Forced (yes)
	Extension >> Media >> RTP Encryption >> SRTP Cipher Suite	AES_CM_128_HMAC_SHA1_80 AEAD_AES_128_GCM	AES_CM_128_HMAC_SHA1_80 AEAD_AES_128_GCM AES_256_CM_HMAC_SHA1_80 AEAD_AES_256_GCM	AES_256_CM_HMAC_SHA1_80 AEAD_AES_256_GCM

Call Quality – Voice Calls

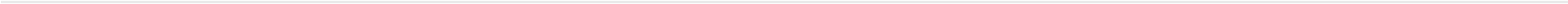
Call Quality (Voice)

Supported Endpoints	Endpoint Configuration Items	Value(Low Level)	Value(Medium)	Value(Advanced)
GXP16xx/17xx,GXP213/4/6/7x,GRP26xx,GXV3XXX,WP8XX,GAC,GHP,GSC,GDS,GVC	Account/Account/Encoding Settings/Preferred Encoding	0:PCMU	9:G722	123:OPUS
GXP16xx/17xx,GXP213/4/6/7x,GRP26xx,GXV3XXX,WP8XX,GAC,GHP,GSC,GDS,GVC	Account/Account/Coding Setting/Preferred Code (Second Order)	8: PCMA	0:PCMU	9:G722
GXP16xx/17xx,GXP213/4/6/7x,GRP26xx,GXV3XXX,WP8XX,GAC,GHP,GSC,GDS,GVC	Account/Account/Code Setting/Preferred Code (third place)	9:G722	8: PCMA	0:PCMU
GXV3XXX,WP8XX,GAC.GHP,GSC,GDS,GVC	account/account/Encoding settings/Enable audio forward error correction	0:No	1:Yes	1:Yes
Corresponding extension configuration on PBX	Corresponding extension configuration on PBX	Value(Low Level)	Value(Medium)	Value(Advanced)
	Extension >> Media >> General >> Codec Preference	PCMU(ulaw)	G722(g722)	OPUS(opus)
	Extension >> Media >> QoS >> Jitter Buffer	disable	Fixed (200ms) (normal)	Neteq(neteq)
	Extension >> Media >> QoS >> Audio FEC	Close(0)	Open(1)	Open(1)

Call Quality – Video Calls

Call Quality (Video)				
Supported Endpoints	Endpoint Configuration Items	Value(Low Level)	Value(Medium)	Value(Advanced)
GXV3XXX,WP8XX,GVC,GSC3575 (GXV3450andGXV3370The highest you can choose720P)	Account/Account/Encoding Settings/Video Size	4:4CIF	9:720P	10: 1080P
GXV3XXX,WP8XX,GVC,GSC3575 (GXV3450andGXV3370The highest you can choose2048Kbps)	Account/Account/Encoding Settings/Video Rate	512: 512Kbps	2048: 2048Kbps	4096: 4096kbps
GXV3XXX,WP8XX,GVC	Phone Settings/Video Settings/Video Frame Rate	15: 15fps	25: 25fps	30: 30fps
GXV3XXX,WP8XX,GVC,GSC3575	Account/Account/Encoding Settings/Video Encoding/Enable Video Forward Error Correction	0: Disabled	1: Enabled	1: Enabled

GXV3XXX,WP8XX,GVC,GSC3575	Account/Account/Encoding Settings/Video Encoding/Packet Loss Retransmission	2: Disable d	0: NACK	1: NACK+ RTX
Extension configuration items on PBX	Extension configuration items on PBX	Value(L ow Level)	Value(Mediu m)	Value(A dvance d)
	Extension >> Media >> QoS >> Video FEC	Close(0)	Open(1)	Open(1)
	Extension >> Media >> QoS >> Packet Loss Retransmission	Close(0)	NACK(2)	NACK+ RTX (1)



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